S/130/61/000/001/003/006 A006/A001

AUTHORS:

Yudin, M. I., Chief of the Cold Rolling Shop, Troshchenkov, N. A.,

Chief of the Rolling Group TsZL

TITLE:

Stainless Steel Ground Plates

PERIODICAL: Metallurg, 1961, No. 1, 1961, pp. 21-23

TEXT: In connection with the development of polished plastic articles, manufactured by pressing, the demand of polished and ground stainless steel backing plates is continuously increasing. The production of ground stainless steel plates was started at "Zaporozhstal'" in 1957, using the MMM-1500 (ShPM-1500) grinding machines. The authors together with M. M. Stekachev, L. A. Zagadchenko and G. A. Drobot investigated the effect of individual technological parameters on the surface of the finished plates and revealed deficiencies in the design of the aforementioned machine. Heat treated, etched 1×18H9T (1Kh18N9T), 1×18H9 (1Kh18N9) and 2×18H9 (2Kh18N9) steel sheets, and quenched and etched cold-worked 1Kh18N9T steel blanks were used. Since the quality of the ground plates depends on the surface conditions of the blanks, measures were taken to improve the quality of the blank surface. For this purpose water glass used as a binding material on abrasive

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s/130/61/000/001/003/006 A006/A001

. Stainless Steel Ground Plates

belts was replaced by hide glue and the following optimum conditions for grinding the plates wer established: 1) rough grinding with 100 mesh abrasive material; 2) pre-finishing grinding with 150 mesh abrasive and 3) finishing grinding with 180 mesh abrasive powder. Electrocorundum was found to be the best abrasive material. The abrasive powder was applied to the belt by a special device consisting of a sheet metal container with four rolls - two for tightening the belt and two for applying and levelling the abrasive material. The ShPM-1500 belt-type machine consists of a feed and a grinding mechanism. The sheet to be ground is sucked on to a perforated feed belt by a vacuum pump retaining the work on the belt during its processing with the abrasive belt. The feed belt moves at a speed of 3.2 - 11 m/min. The grinding mechanism consists of three rolls onto which an endless 1 mm thick, 1300 mm wide abrasive belt is fastened. The abrasive belt moves at a speed of 10 m/sec. The belt is pressed against the work piece with four 100-mm diameter steel rolls. The grinding operation can be switched over to the vertical direction. Experience gathered in the production of stainless steel ground plates by the aforementioned method has led to the following conclusions, 1. The quality of finished plates depends in the first place on the quality of cold and hot rolled blanks. There should not be any visible defects on the blank surface, since their elimination would require the removal of a thick metal layer. This would extend

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Stainless Steel Ground Plates

the grinding process and impair the quality of the ground surface. 2. The existing method of applying the abrasive material and the glue to the belt by manual pulverization does not assure a uniform covering of the belt with the material on its whole length and width. Therefore mechanical processes of applying the abrasive powder should be developed. 3. The rubberized transportation belts do not yield satisfactory results due to different thickness across their section (2 - 4 mm at a 12-mm thick belt); non-admissible expansion during operation (up to 10%); cracking and scaling of the upper coating. 4. The endless woolen abrasive belts produce considerable non-uniform longitudinal stretching (up to 15%) causing cracking of the abrasive coating and breakdown of the belt, Inclusions of foreign material in the belts produce scratchings on the surface to be ground. 5. The grinding machine described has a series of deficiencies and cannot be recommended for the grinding of large size sheets. Designs of machines should be developed for the grinding of sheets on both sides by taking into account domestic and foreign experiences. 6. Large scale production of ground plates should be performed in special shops, starting with cold rolling of blanks. There are 3 figures.

ASSOCIATION: Zaporozhstal' Plant

Card 3/3

KSENZUK, F.A., inzh.; MIRENSKIY, Yu.M., inzh.; TROSHCHENKOV, N.A., inzh.

Changes in steel properties depending on the deree of reduction during coil straightening. Stall 24 no.1:56-58 [MIRA 17:2]

Ja '64.

1. Zavod "Zaporozhstal".

YUDIN, M.I.; KOMANOVSKIY, A.Z.; TROSHCHENKOV, N.A.

Redesign of the 1618 continuous cold rolling mill. Metallurg 8 (MIRA 16:12) no.11:28-29 N '63.

KSENZYK, F.A., inzh.; TROSHCHENKOV, N.A., inzh.

Reasons of blister formation on cold-rolled OSkp steel sheets.

Stal " 21 no.3:274-276 Mr "61.

1. Zavod "Zaporozhstal"."

(Sheet steel--Defects)

S/133/61/000/003/013/014 A054/A033

AUTHORS: Ksenzuk, F. A., Engineer; Troshchenkov, N. A., Engineer

TITLE: The causes of blister formation on O8km (O8kp) cold-rolled

steel sheets

PERIODICAL: Stal', no. 3, 1961, 274 - 276

TEXT: There are many rejects among the cold rolled O8kp steel sheets principally used for gasoline containers and car bodies, on account of blister formation. The blisters (1 - 5 mm wide, 2 - 50 mm long) are as a rule found after annealing on the surface, in the sheet centre 200 - 250 rule found after annealing on the surface, in the sheet centre 200 - 250 mm from the edges. Upon studying the microstructure of 164 specimens from the sheets it was established that blisters mainly form in those parts of the sheets which contain a large quantity of non-metallic (siliceous) inclusions and especially, when these inclusions are near the surface. According to Ref. 1 (G. K. L'vov: Metallographic Principles of Producing Thin Steel Sheets, Khar'kov-Moscow, Metallurgizdat, 1949) and Ref. 2 (E. Gudremons Theory of Special Steels, ONTI, 1937) blisters are caused by the hydrogen diffusion in iron during pickling. Therefore the effect of the pickling

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S/133/61/000/003/013/014 A054/A033

The causes of blister formation

time on hot rolled strips before cold rolling, as well as the casting technology in general were investigated. The pickling assembly used in the tests consisted of four sulfuric acid baths with a concentration of 18, 18, 12 and 9%, respectively. The pickling speed varied between 40 m/min and 10 m/min. At max. pickling speed holding time in bath 1.8 min and at min. pickling speed holding time in bath 7.2 min. the following results were obtained:

Heats	<u>3773</u> 3923	61079	4929	101144	51046
Sheets rejected on	11.9	0.0	2.1 0.0	10.0	1.6

The tests show that neither the composition, nor the temperature of the bath affected blister formation, only the speed at which the strip passed through the bath, (at top speed about 9 times more blisters were formed than at low speed). However, blister formation cannot be eliminated entirely, even at low pickling speeds. In order to determine the effect of the pouring technology on the formation of non-metallic impurities and, consequently, of blisters, the method and the rate of casting were closely Card 2/3

The causes of blister formation

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S/133/61/000/003/013/014 A054/A033

followed. In the tests the metal was additionally impurified by chamotte powder or by not removing the slag. The greatest amount of blisters was found in sheets rolled from the lower part of slabs, made from bottom. -poured metal. It is supposed that with bottom poured metal the lower part of the ingot is contaminated by impurties consisting of refractory material that has been dislodged and carried along, and of substances used in assembling the bottom board. When the pouring speed was increased, for instance by pouring two molds at the same time, blister formation was somewhat lower. In sheets from slabs produced by top-pouring the amount of siliceous inclusions and consequently blister formation was considerably less. As a result of the tests, refractory material of the highest quality should be used when casting low-carbon rimmed steel, which has to comply with particularly high standards, and the assembly of the bottom board has to be subjected to a very severe control. In this way blister formation could be reduced to a minimum. In the tests I. S. Marakhovskiy, I. L. Zlatkin, A. I. Marinov, A. I. Koshik, V. N. Lola, L. A. Zagadchenko, Engineers participated. There are 2 figures and 3 Soviet references.

ASSOSIATION: Zavod "Zaporozhstal'" ("Zaporozhstal'" Plant)
Card 3/3

S/133/60/000/012/009/015 A054/A027

1.1300

AUTHORS:

Filonov, V.A., Engineer, Yudin, M.I., Engineer, Troshchenkov, N.A., Engineer, and Movshovits, V.S., Engineer

Improved Production Process for Cold Rolled Alley Steel Sheets TITLE 8

PERIODICAL: Stal', 1960, No. 12, pp. 1,116-1,118

TEXT: Until recently the production of the alloyed steel sheets, 0.5-3.0 mm thick, in the Zaporozhstal Plant was divided into 8 stages. The technology had certain drawbacks: because the sheets had to be moved about a great deal during processing, their surface defects were numerous: 16.6-25.1% were defective, moreover, it was not possible to obtain the required mechanical properties. About 30% of the sheets had to be rejected because the strength limit was too low. In order to simplify and at the same time to improve this limit was too low. In order to simplify and at the same time to improve this process, cold rolling tests were made with 12 7 2A (12G2A), 25 X 7 CA (25KhGSA), 30XTCA (30KhGSA) and other steel sheets, 0.8-3.0 mm thick, omitting bright annealing, i.e., the second phase of the conventional production process. The tests were carried out on a 1,680 mm stand, at a maximum rolling speed of 3.95 m/sec and it was found that the 12G2A steel sheets, 0.8-3.0 mm thick and 730-1,270 mm wide could easily be rolled in 3-7 passes. The cold rolling of 25KhGSA and 30KhGSA steel sheets without bright annealing was only possible up to 1.2-3.0 mm thickness, irrespective of the strip width, with normal metal Card 1/5

88198 8/133/60/000/012/009/015 A054/A027

Improved Production Process for Cold Rolled Alley Steel Sheets

pressure at the rollers and with normal load on the main motor. Omitting bright annealing decreased rolling waste 2.2 times for the 12G2A and 3.2 times for the 25KhGSA and 30 KhGSA brand steels. Furthermore, tests were carried cut with cold rolling steel sheets (12G2A) containing manganese up to 0.5 mm thickness, without bright annealing and intermittent annealing, on a 4-high reversible mill stand (1,200 mm) and it was established that by applying this technology wastage could be reduced 3.3 times as compared with the conventional method, while the metal pressure on the rollers was kept within the limits allowed (1,800 t) and by applying hydrogenated sunflower seed oil as a lubricator, the main motor load could be reduced. Maximum rolling speed attained 6.7 m/sec. Tests were also carried out to improve the annealing of hot rolled sheet coils of 23 X 2H BΦA (23Kh2NVFA), 17 × 2HBΦA (17Kh2NVFA), 12 X 2HBΦA (12Kh2NVFA), 25XTCA (25KhGSA) and 30XTCA (30KhGSA) steels and it was established that optimum conditions can be obtained by annealing unpickled sheet coils in a protecting atmosphere of nitrogen, containing not more than 0.5% CO2, 4-6% CO and 4-6% H2. Annealing takes place in this protecting atmosphere at 850°C for periods of 16,18,20 hours, depending on the weight of the charge, ($\leq 6,7-8$, 9-10 coils, respectively). By annealing in protective atmosphere it was possible Card 2/5

88498

S/133/60/000/012/009/015 A054/A027

Improved Production Process for Cold Rolled Alloy Steel Sheets

to prevent decarbonization and to increase the output of the pickling equipment considerably by setting free great part of its capacity. Further improvement in the quality of cold rolled 12G2A steel sheets could be attained by normalizing the sheets in coils, in electric hood-furnaces with ventilators. The heat conditions of the process were the same as when normalizing the sheets in small packets (heating up to 840-860°C, holding time: 1 hour, furnace temperature 900°, cooling under muffle to 180°C); the improvement in mechanical properties was obtained by the special size and the construction of the furnace securing a uniform heating and cooling in the entire coil while waste due to inadequate mechanical properties could be eliminated. This waste had amounted to about 80% when normalizing in the conventional production process single packets. There is 1 table.

Card 3/5

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Improv	ed Production 1	Process fo	or Cold Ro	lled Alloy	Steel Sheet	S		
width	mm; 4 Total on the roll ton	reduction	%; (5) I	Load on the	main motor	a; 6 Met	strip cal pres-	Χ.
Марка стали	Исходлая в конечная толицина полосы, жм	ряна полосы мя.	Суммарное обжатне 4	Нагрузка глав- вого двигателя	Давление метал- ла на валки б	Скорость прокатка м/сек	Колнчество пропусков 8	-3
	Реверсивный	стан 1680						
2Г2A	2,3-0,8 { 2,3-1,0 { 2,3-1,2 2,7-1.5 3,2-2,0 3,7-2,5	1270 1020 1270 1020 1020 1020 1020 1270	65,1 65,1 56,5 56,5 47,8 44,5 37,5	1200—2830 800—3000 1200—3000 1000—3400 1000—3000 1600—2500 2000—3200 2000—3000	1400—1700 800—1100 1300—1700 900—1700 850—1500 900—1100 1200—1700 1400—1800	1,17—3,44 1,57—3,52 1,57—3,71 1,57—3,60 0,78—3,52 1,76—3,52 1,57—3,52 2,54—3,14	7 5 5-7 5-3	
	4,0—3,0 { /5	1270 730	25,0 25,0	2000 - 3000 2000—2500	900—1100	2,34—3,14 2,34—3,14		

and the second s			mur filman usta san hama ang sulau usulau usulau usu d .a	S/1;	88498 s/133/60/000/012/009/015		
		· .		A054/A027			
Improv	red Production	Process for C	old Rolled A	Alloy Steel Shee	ets		
25XFCA	4,0-3,0 2,3-1,0 2,5-1,2 2,7-1,5 3,0-1,8 3,2-2,0 4,0-3,0 Реверсивный	1020 1020 1020 1290 1000—1020 1020 1020 1020 1270 730 1020 1270 1020 1270 1020 1270	44,5 800- 40,0 800- 37,5 2000- 32,4 8 70- 32,4 8 70- 32,0 800- 56,5 400- 52,0 2000- 44,5 1200- 44,5 1200- 40,0 800- 37,5 1200- 37,5 400- 32,4 830- 32,4 800-	-2000 1200-2000 1200-18	0 0,78-3,14 0 78-3,14 1,17-2,35 0 0,62-1,95 0 0,78-2,34 0 75-3,14 0 78-1,76 0 0,78-2,74 0 0,78-1,57 1,17-2,74 0 0,78-3,14 0 0,78-2,74 0 0,78-2,74 0 0,47-2,15	7 3 5 3 7 3 9—11 3 5—3 5—3 5—7 5—3 5—7 3—7 3—7	
	2,0-0,5	1020		-6000 ; 900—1600 -4500 : 900—1400		7	

TROSHCHENKOV, N.A., inzh.; Zagadchenko, L.A., inzh.

Changes in the mechanical properties of steel under the effect of cold rolling. Stal' 20 no.8:735-738 (MIRA 13:7)

Ag '60.

1. Zavcd "Zaporozhstal'." (Steel—Cold working)

s/133/60/000/008/009/013

AUTHORS

Troshchenkov, N. A., Zagadchenko, L. A., Engineers

TITLE

The Change in the Mechanical Properties of Steel During

Cold Rolling

PERIODICAL: Stal', 1960, No. 8, pp. 735-738

TEXT: In order to investigate the changes in the mechanical properties and the hardness of steel as a function of the degree of deformation, cold-rolling tests were carried out with 08 km (08kp) 10[2 formation, cold-rolling tests were carried out with 08 km (08kp) 10[2 formation, cold-rolling tests were carried out with 08 km (08kp) 10[2 formation, cold-rolling tests were carried out with 08 km (08kp) 12X5MA (10G2), 12[2A (12G2A), 25X1CA (25Kh1SA), 30X7CA (30KhGSA) 12X5MA (12Kh5MA), 3/4659 (EI659), 3/5(E3), 1X18H9 (1Kh18N9), 1X18H9T (1Kh18N9T) (12Kh5MA), 3/4659 (EI659), 3/5(E3), 1X18H9 (1Kh18N9), 1X18H9T (1Kh18N9T) (18Kh18N9T) (18Kh18NPT) (18Kh18

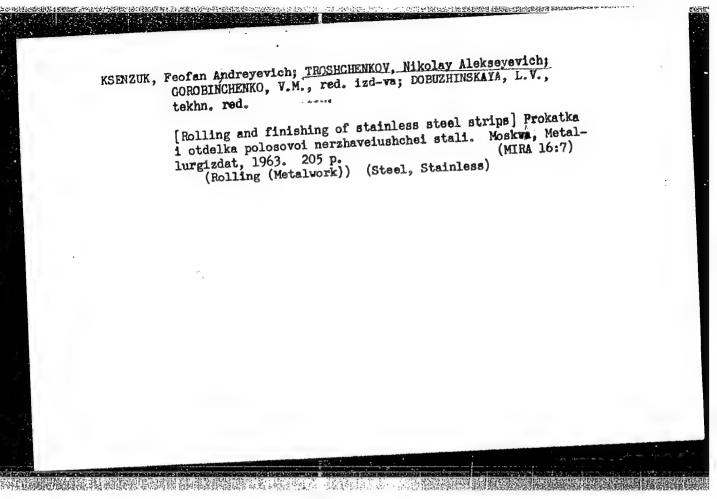
Card 1/2

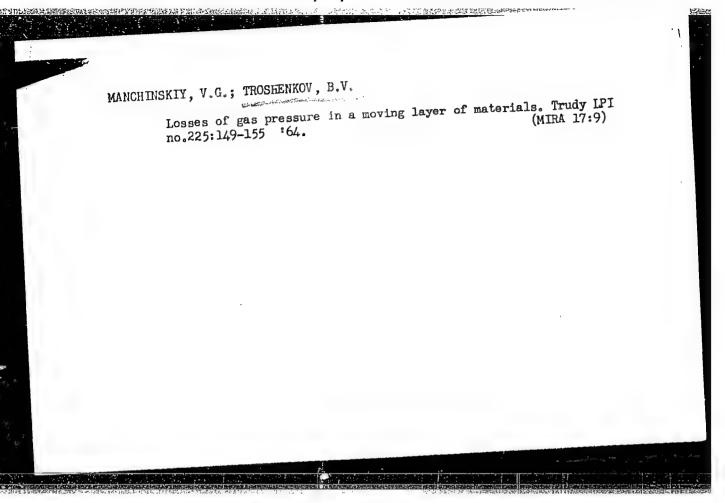
S/133/60/000/008/009/013 During Cold Rolling

The Change in the Mechanical Properties of Steel During Cold Rolling

lubrication spindle oil, for cooling the rolls a 5-7% mineral emulsion were applied. For each degree of deformation four (two transverse and two along the rolling) specimens were tested, in accordance with FOCT (GOST) 4197-42 and diagrams for the extensions were plotted. By analyzing the graphs representing the dependence of mechanical properties and the hardness in the stage of deformation, the following conclusions were drawn: 1) The strain hardening of the steel during cold rolling is not proportional to the stage of deformation. It is most effective in the beginning of deformation and becomes less pronounced as the deformation increases. 2) During cold forming the anisotropy of the steel properties increases, mainly for the EI811 type steel. 3) The relative elongation during cold rolling decreases disproportionately to the strain hardening of the steel. For all steels investigated it was found that after a deformation of 60% there is hardly any change in relative elongation. 4) The hardness of relatively plastic steels increases 1.2-2 times during cold rolling, whereas in less plastic steels, displaying a considerable hardness already before the rolling process, hardness increased only slightly. There are 2 sets of figures. ASSOCIATION: Zavod"Zaporozhstal;" (Zaporozhstal; Plant)

Card 2/2

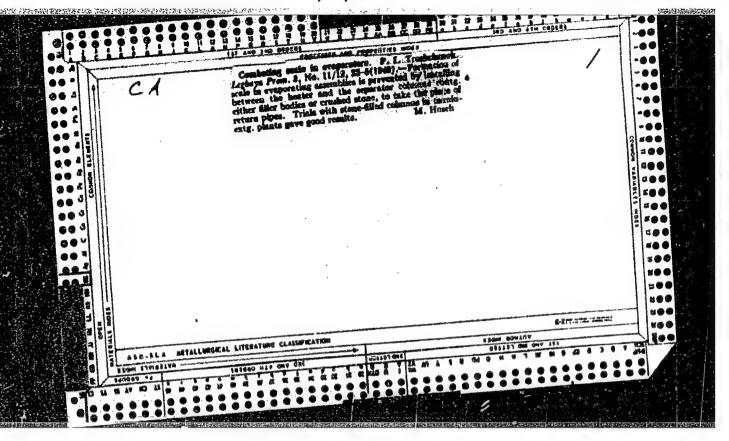




TROSHCHENKOV, N.A.; TILIK, V.T.; MOVSHOVICH, V.S.

Quality of the cut of strip edges. Metallurg 8 no.5:29
(MIRA 16:7)
My '63.

1. Zaporozhskiy staleplavil'nyy zavod.
(Metal cutting—Quality control)



TROSHCHEROVSKIY, A.F., inzh.

Selecting optimum loading for vibratery millis. Seron. i der.
mash. 9 nc.11:25-27 N 164

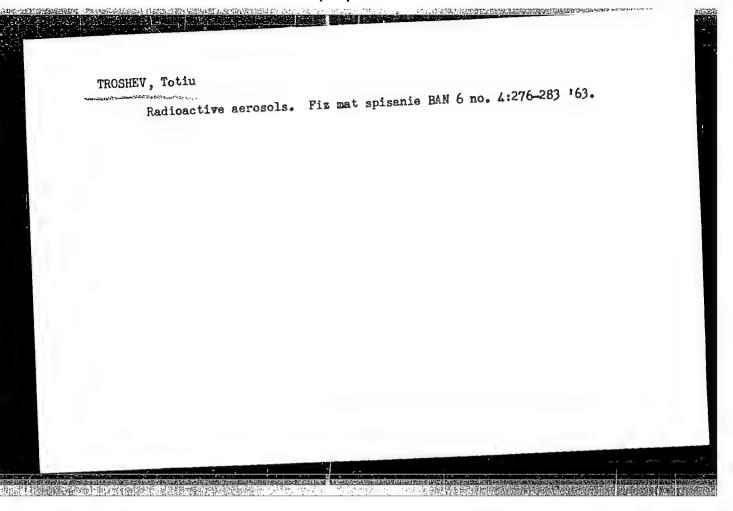
(NJRA 18:4)

KARAYEV, M.A.; CGIPOV, R.G.; TROSHCHINSKAYA, S.S.

Results of splenopertography in the diagnosis of pertal hypertension. (MFFA 18:9) Azerb. med. zhur. 42 no.6:11-16 Je '65.

1. Iz kafedry fakul'tetskoy khiururgii (zaveduyushchiy - prof. A.N. Tairov) pediatricheskogo i san'tarno-gigiyenicheskogo fakul'teta Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta im. N.Narimanova i 4-y klinicheskoy gorodskoy bol'nitsy g. Baku im. Fuada Efendiyeva (glavnyy vrach - A.Ya.Ismaylov).

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KARASEV, K.I., kand. khim.nauk; MAKOTINSKIY, M.P., kand. arkh.;

TROSHICHEV, V.M.; Prinimali uchastiye: LUTSIK, L.D.,
inzh.; FEDOROVA, G.M., tekhnik; LIVSHITS, A.M., inzh.;
ANDREYEV, V.S., retsenzent; MIRENSKIY, B.R., inzh.,
retsenzent; GURVICH, E.A., red.izd-va; TEMKINA, Ye.L.,
tekhn. red.

[Catalog of finishing materials and products] Katalog otdelochnykh materialov i izdelii. Moskva, Gosstroiizdat. Pt.2. [Paints and lacquers] Kraski i laki. 1961. 76 p. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Andreyev).

(Paint materials—Catalogs)

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Octopathy caused by syringomyelia. Vest.rent. i rad. 32 no.3: 98-100 My-Je '57. (MERA 10:10) 1. Iz kafedry rentgenologii i radiologii (zav. - dotsent V.N. Shtern) Saratovakogo gosudaratvennogo meditsinskogo instituta (dir. dotsent V.A.Nikitin). (SYRINGOMYELIA, compl. bon e brittleness) (BOMBISSASES, etiol. and pathogen. brittleness caused by syringomyelia)

PALISHKIN, D.A.; IVANOV, V.I.; M.KARENKO, L.N.; GALAOV, K.K.;
TROSHCHIN, S.I.; KPISTUK, V.I.; STEPANOV, A.D.; SAZCHOVA,
N.I.; KUZHETSOVA, M.P.; PISARENKO, G.N.; LOBKOV, M., red.

[Nechanization in animal husbandry] Mekhanizatsia v zhivotnovodstve. Stavropol', Stavropol'skoe knizhnoe izd-vo,
1963. 287 p.

(MIRA 17:8)

KIL'MAN, Ya.I., kand.tekhn.nauk; Prinimali uchastiya RATOVA, G.S.;
TROSHCHINA, L.G.

Stabilization of the thermal decomposition of highly concentrated ammonium nitrate melts. Khim.prom. no.1:66-69 Ja '62.

(MIRA 15:1)

1. Gosudarstvennyy institut azotnoy promyshlennosti.

(Ammonium n'trate)

TROSHCHINSKIY, I.A., inzh.

Stand for determining the angle of static stability in tractors. Mekh. i elek. sots. sel'khoz. 19 no.6:49-50 '61. (MIRA 14:12)

1. Gosudarstvannoye spetsial'noye konstruktorskoye byuro po sel'skokhozyaystvennoy tekhnike Sovnarkhoza Gruzinskoy SSR. (Stability of tractors)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720019-3"

TROSHCHINSKIY, I.A.

Studying the dynamics of the 0.6t-class mountain tractor. Trakt. i sel'khozmash. 33 no.3:15-18 Mr '63.

MIRA 16:11)

1. Gosudarstvennoye spetsial noye konstruktorskoye byuro pc sel skokhozyaystvennoy tekhnike.

TROSHCHINSKIY, I.A.

New design of steering mechanims. Trakt.i sel'khozmash. 31 no.9:10-12 S. :61. (MIFA 14:10)

1. Gosudarstvennoye spetsial noye konstruktorskoye byuro po chayu.

(Steering gear)

TROSHCHINSKIY, I.A., ingh.

Self-propelled DSSh-14 chassis. Mekh. i elek.sots.sel'khoz. no.5:

44-47 '56. (MIRA 12:4)

1. Gruzinskaya mashinoispytatel'naya stantsiya.

(Tractors)

TSYGANOV, M.S., prof., doktor sel'skokhozyaystvennykh nauk; TROSHCHIY, A.I.

Cutting slit furrows across slopes helps to increase grass yields. Zemledelie 8 no.10:61-65 0 '60. (MIRA 13:10)

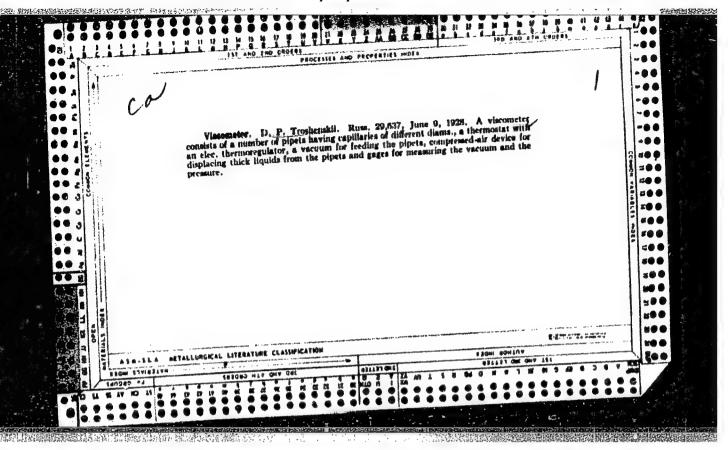
1. Voronezhskiy sel'skokhozyaystvennyy institut.
(Pastures and meadows) (Tillage)

ZAKHAROVA, T.A., dotsent; TROSHENKO, L.S., vrach

Occupational pathology in the production and use of polyvinyl chloride plastics. Trudy KCMI no.10:27-30 63.

(MIRA 18:1)

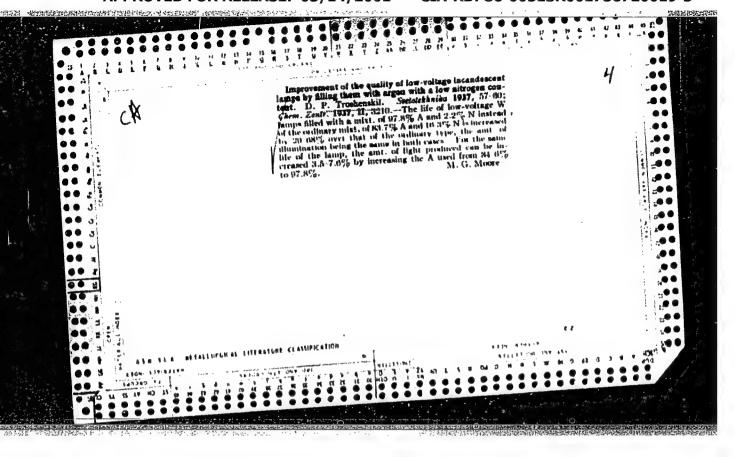
l. Iz kafedry propedevtiki vnutrennikh bolezney (zav. kafedroy dotsent A.N. Kushnev), Kalininskogo gosudarstvennogo meditsinskogo instituta.



TROSHENOK, P.I. Hardboards made of spent tanbark. Kozh.obuv.prom. 3 no.4:35 åp '61. (MIRA 14:5) 1. Glavnyy inzhener Vol'skogo ekstraktovogo zavoda. (Tanning materials) (Hardboard)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756720019-3



TROSHENSKIY, D.P., inzh.

Effect of the pressure of argon on the quality of incardescent lamps. Svetotekhnika 8 no.7:6-10 Jl 162. (MIRA 15:6)

1. Moskovskiy elektrolampovyy zavod. (Electric lamps, Incandescent)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720019-3"

20857

9.4120 (1003,1105,1140)

\$/048/61/025/503/047/047 B104/B203

AUTHORS:

Nilender, R. A. and Troshenskiy, D. P.

TITLE:

Adaptation of luminophores as light sources

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

no. 3, 1961, 435-439

TEXT: This paper was read at the 9th Conference on Luminescence (Crystal Phosphors) in Kiyev, June 20-25, 1960. The development of tube luminophores was started in the Soviet Union 20 years ago. Under the direction of S. I. Vavilov, work was carried out at the laboratories of the Moskovskiy elektrolampovyy zavod (Moscow Plant of Electric Tubes) together with the Fizicheskiy institut Akademii nauk (Institute of Physics of the Academy of Sciences) and the laboratories of the VEI. The first luminophore for tubes was cadmium silicate activated with manganese and magnesium tungstate. The Gosudarstvennyy opticheskiy institut (State Optical Institute) was also engaged in further investigations. The industrial production of a calcium halogen phosphate activated with antimony and manganese was started at the "Krasnyy khimik" ("Red Chemist") Plant.

Card 1/3

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s/048/61/025/003/047/04? B104/B203

Adaptation of luminophores as ...

Card 2/3

Further improvement of this luminophore in 1955-60 is described, and its properties are pointed out. Thus, it is stated that antimony as a sensitizer acts in the trivalent state only. The best halogen phosphate luminophores are, in their structure, similar to apatite in which the calcium is replaced by antimony or manganese. Besides, the replacement of fluorine in this compound by chlorine produces a slight shift of the wavelengths emitted. Antimony forms luminescent centers in the apatite lattice. To prevent the occurrence of hydrosilicate, it is necessary to observe certain conditions in the apatite precipitation and optimum temperatures in the heat treatment. The optimum content of antimony lies at 0.7 - 0.8 %. If manganese is introduced and the fluorine/chlorine ratio is changed, the spectral composition of emission changes, but the stability of the luminophore is not affected. Further, it was found that 4.9 metal atoms should come to 3 phosphorus atoms to obtain maximum brightness and stability. On the basis of the above results, an improved halogen phosphate has been developed; it is being produced now and yields 10 % more light (with 40-w tubes, the light yield is 48-55 lumen per watt). Aging of tubes is connected with the destruction of antimony centers. Thus, reducing compounds cause, in the gas medium, a decrease in lumines-

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Adaptation of luminophores as...

cence of the luminophore by reduction of antimony which can be annulled by oxidation of the reduced antimony. This circumstance is considered in the production of tubes. Due to the production process, the brightness of the luminophore drops by 20-24 % in the finished tube as compared with its maximum brightness. Production methods have been developed with further treatment by weak hydrochloric acid solution after the heat treatment at 1100°C (15-30 min). Such treatment removes manganese exides from the surface and produces a light yield of 95-97 % of the maximum possible yield. By a reduction of temperature and the use of protective layers it was possible to reduce the liberation of impurities introduced. By an improved vacuum treatment of the tubes and subsequent training of the cathodes with high-voltage discharges in Hg vapor, it was possible to reduce the drop in luminous intensity from 20-30 % to 10-14 % within 3000 hr. The 40-w tubes thus produced had a light yield of 60-62 lumen per watt. V. M. Skobelev, Ch. B. Lushchik, D. P. Troghenskiv. and T. A. Krasnova took part in the subsequent, extensive discussion taking reference to papers by V. L. Levshin, B. D. Ryzhikov, and V. I. Dolgopolov of the VNISI. There are 6 references: 7 Soviet-bloc and 4 non-Soviet-bloc.

Gard 3/3

TRUSHENSKIY, S.P.; ZHDANOVICH, V.F., inzh., retsenzent; GULYJCHKIN, K.N., inzh., red.

[Calculating the precision of macining on machine tools] Raschety tochnosti obrabotki na metallorezhushchikh stan-kakh. Moskva, Izd-vo Mashinostroenie, 1964. 202 p. (MIRA 17:7)

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Lang Leon Loi

Dissertation: "Influence of the Rididity of Circular Grinding Machines on the Accuracy of Machinery."

15/11/50

Moscow Machine Tool Inst imeni L. V. Stalin

SO Vecheryaya Moskva Sum 71

TROSHENSKIY, S.P.

[Precision in grinding-machine work] Tochnost' obrabotki na shlifoval'nykh stankakh. Moskva, Gos. nauchno-tekh. izd-vo mashinostroit. i sudostroit. lit-ry, 1953. 123 p. (MLRA 6:12)
(Grinding and polishing)

PROSHEV, A 1.

NOVIKOV, M.P., A.V. SIVAI, and A.I. TROSHEV

Montazh aviatsionnykh dvigatelei. Montazhnye prisposobleniia. Moskva, Oberongiz, 1947. 268 p.

Title tr.: Assembly of aircraft engines and equipment.

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720019-3"

TROSHEV, A.I.

Sborka aviatsionnykh dvigatelei. Moskva, Oborongiz, 1943. 175 p., illus.

Title tr.: Assembly of aircraft engines.

TL701.1.T7

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of $^{\rm C}$ ongress, 1955.

HOVIKOY, M.P.; SIVAY, A.V.; TROSHEV, A.I.; YERUKHIMOVICH, TS.M., ZU-DAKIN, I.M., tekhnicheskiy Fedaktor.

[Installation of airplane engines; tools] Montazh aviatsionnykh dvigatelei; montazhnye prisposobleniia. Moskva, Ohorongiz, glavnaia redaktsiia aviatsionnoi lit-ry, 1947. 267 p. (MIRA 8:2) (Airplanes--Engines)

TROSHEV, M.A., manter

We are headed for communism. Metallurg 7 no.7:33-34 J1 '62.

(MIRA 15:7)

1. Nikopol'skiy yuzhnotrubnyy zavod.

(Pipe mills)

TROSHEV, Nikolay Ivanovich

[Development and distribution of productive forces of the RSFSR from 1959 to 1965]Razvitie i razmeshchenie proizvoditel'nykh sil RSFSR v 1959-1965 godakh. Moskva, Ob-vo po rasprostraneniiu polit. i nauchn. znanii RSFSR, 1959. 38 p. (MIRA 16:1)

(Russia-Economic policy) (Industries, Location of)

THOSHWY, N. I. --

"Froblems of the Geographical Distribution of Socialist Industry." Cand Geography, Acad Sci USSR, 22 Oct 54. (VII, 22 Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

TROSHEV, Nikolay Ivanovich, kand. geogr. nauk; TIKHOMIROV, V.N., red.; NAZAROVA, A.S., tekhn. red.

[What changes take place on the map of our economy]Kak meniaetsia karta nashei ekonomiki. Moskva, Izd-vo "Znanie," 1962. 34 p. (Novoe v zhizni, nauke, tekhnike. XII Seriia: Geologiia i geografiia, no.12) (MIRA 15:9) (Russiae-Economic policy)

TROSHEY, Mikoley Ivanovich; KOMAROV, Ye.I., red.; PONOMAREVA, A.A., tekhn.red.

[Planning the distribution of industry in the U.S.S.R.] Planirovanie razmeshcheniia promyshlennosti v SSSR. Mcskva, Gosplanizdat,
1960. 125 p. (MIRA 13:11)

(Industries, Location of)

MISHEV, I.T.; RADICHEVA, M.A.; TROSHEV, T.M.

Study on radioactive contamination about the IRT-1000 nuclear reactor. Atom.energ. 16 no. 4:344-348 Ap '64. (MIRA 17:5)

1. Fizicheskiy institut Bolgarskoy Akademii nauk, Sofiya.

SOV/137-58-11-21934

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 11, p 14 (USSR)

AUTHOR: Troshichev, A. D.

TITLE: Measuring Surface Temperatures of Steel Ingots and Forgings

(Izmereniye temperatury poverkhnostey stal'nykh slitkov i pokovok)

PERIODICAL: Tr. Nevsk. mashinostroit. z-da, 1957, Nr 2, pp 88-93

ABSTRACT: A description is offered of the designs of 3 types of contact thermocouples (T) employed at the Nevskiy Machinery Plant for measuring

surface temperatures of ingots, forgings, and various parts. The chromel-alumel T designed for measuring temperature in the 30-600°C

range has an asbestos-cement head carrying the hot junction (HJ) fastened to the T protection tube by a spring. This permits the head

to be deflected several degrees in either direction, eithereby.

making for unbroken contact between the HJ and the surface the temperature of which is being measured. Steady readings are obtained when the HJ is brought into contact with the surface for 10-25 sec.

The accuracy of the measurements, after correction for the temperature of the free ends of the T and for heat loss into the environment,

Card 1/2 comes to ±10°C. Another T, designed for low lag and provided with

SOV/137-58-11-21934

Measuring Surface Temperatures of Steel Ingots and Forgings

its own preheating, is designed for measuring temperatures in the $30\text{-}1200^\circ$ interval. It consists of two electrode wires (chromel-alumel or Pt-Pt/Rh) in a single protection tube, connected as usual with a galvanometer, and of two nichrome or Pt conductors for the electric heater (H). Before a measurement is taken, the HJ is warmed up by the H to the presumed temperature of the surface being measured, whereupon the two are brought into contact. The deflection of the galvanometer pointer defines the number of degrees by which the real surface temperature is above or below that of the preheated HJ. Measurement is accurate to within $\pm 10^\circ$. The lag of this T is merely a fraction of a second. A bayonet mounted T, used to determine the temperature of turbine blades, consists of a copel wire element in contact with the surface of the blade, the material of which (Nr 2Kh13 steel) serves as the other electrode. This T has a lag of 1 to 3 sec, but emits little heat to the ambient medium,

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SOV/137-58-10-21756

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 185 (USSR)

Troshichev. A.D. AUTHOR:

High-temperature Furnace for Calibrating Tungsten-molybdenum TITLE:

Thermocouples (Vysokotemperaturnaya pech' dlya graduirova-

niya vol'fram-molibdenovykh termopar)

PERIODICAL: Tr. Nevsk. mashinostroit. z-da, 1957, Nr 2, pp 94-98

A description of a rapid method and equipment for calibrating ABSTRACT: W-Mo thermocouples in the 30-1650°C temperature range and

also of a method for the control of nonhomogeneity of wire. The furnace consists of a hermetically sealed steel cylinder 100 -120 mm in diameter in which two corundum tubes (T), one inserted into the other, are located. The space between the cylinder and the T is filled with crushed corundum or quartz sand. Previously purified Ar under a pressure of 2 - 5 mm water column is introduced through one end of the furnace; at the other end the heater terminals and the openings for the thermocouples are located. A heater consisting of Mo wire 0.46 - 0.50 mm in

diameter (10 - 12 coils) is placed between the T. The ends of the standard thermocouple and the thermocouple being calibrated

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SOV/137-58-10-21756

High-temperature Furnace for Calibrating (cont.)

are welded together and placed into the inner corundum T. The temperature is increased at a rate of 100 degrees/min. At that rate of heating with short holding periods at certain temperatures the calibration requires 30 - 35 min. On comparison the results of calibration by this method agree well with the TsNIITMash (Central Scientific Research Institute of Technology and Machinery) method. To determine the homogeneity of the W and Mo wire, specimens 1 mm long are cut from both ends of each skein and W-W and Mo-Mo thermocouples are prepared. These are placed into the furnace which is kept at a constant 700° temperature. When the material is entirely homogeneous, the thermoment of these thermocouples equals zero.

1. Firmaces—Design 2. Thermocouples—Clibration 3. Tungsten wire Z. F. —Test methods 4. Molybdenum wire—Test methods

Card 2/2

ACC NR: AT6034611 SOURCE CODE: UR/3148/66/000/008/0063/0081	
AUTHOR: Bazarzhapov, A. D.; Mishin, V. M.; Nemtsova, E. I.; Troshichev, O. A.	
ORG: none	
TITLE: Diurnal rate of magnetic activity during the IGY	
SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. III razdel programmy MGG (Geomagnetizm i zemnyye toki). Sbornik statey, no. 8, 1966. Geomagnitnyye issledovaniya (Geomagnetic research), 63-81	
TOPIC TAGS: magnetic activity, geomagnetic index, current system, magnetic field, solar zenithal distance, universal time time to property, local time component, auroral zone, GEO MAGNETISM, geomagnetic disturbance	
ABSTRACT: The diurnal rate of geomagnetic activity on perturbed days in 1957—1959 is studied using geomagnetic indices K of 92 observatories which followed the program of the IGY. The study is limited to the diurnal wave of geomagnetic variations and related to local time and universal time. Analysis of the diurnal wave of magnetic variations yielded the following results: 1) The first harmonic of the diurnal wave of equivalent amplitudes of magnetic activity on perturbed	
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days is of the fundamental value. 2) Diurnal variations of magnetic activity can be related to both local and universal time. The component of universal time plays an important role in geomagnetic activity of perturbed days at all latitudes. 3) Variations of the component of local time by latitude and season can be represented as a superposition of two waves with maxima at noon and midnight. Phases of these waves do not change with latitude. These waves are analogous to the current system of a disturbed magnetic field. The error amplitude of the local time component attains a maximum at two geomagnetic zones: • = 63°-67° and \$ \$ 78°. 4) The superposed waves are physically different. level of disturbances is proportional to the square root of the cosine of the zenithal distance of the sun. The wave with a maximum at noon is predominant in equatorial and polar regions, and the wave with a maximum at midnight is predominant in the zone $\phi = 63^{\circ} - 67^{\circ}$. 5) The component of the universal time of variations consists of two parts, the symmetric and asymmetric, which differ from each other physically. The asymmetric part of the universal time component changes in phase by * in the transition from winter to summer of all latitudes. The error amplitude of the asymmetric part changes with latitude. The amplitude is near zero at middle latitudes and increases toward the auroral zone, being maximum at • 78°. The phase of the symmetric part of the universal time component is constant during the year, and the error

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mplitude of this urrent system of niversal time contation of the go pheric conductive of the current system of the current systems, and 32	the disturbed finponent character eomagnetic dipole ity. The symmetr stem upon the eco SChesnokova for	eld. 6) The last the material the distribution of the last characteristic rotal terms of the last content	e asymmetric par gnetic activity stribution of th cracterizes the d ation of the dipo	t of the during the e iono-ependence le. The
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ACC NR. AT6034612 SOURCE CODE: UR/3148/66/000/008/0082/0088

AUTHOR: Troshichev, O. A.

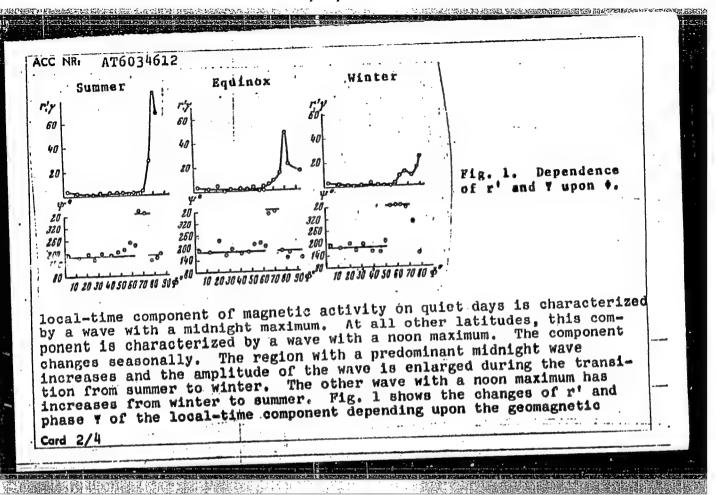
ORG: none

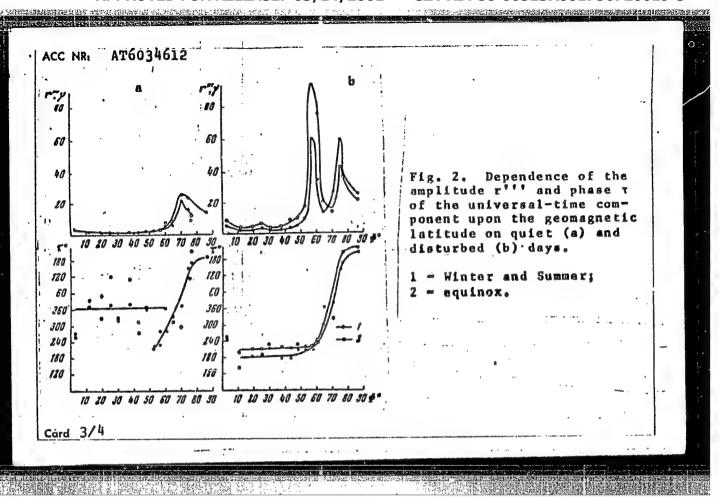
TITLE: Diurnal rate of magnetic activity during the IOY period (quiet days)

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. III razdel programmy MGG (Geomagnetizm 1 zemnyye toki). Sbornik statey, no. 8, 1966. Geomagnitnyye issledovaniya (Geomagnetic research), 82-88

TOPIC TAGS: geomagnetic activity, equivalent amplitude, harmonic analysis, corpuscular stream, ionospheric conductivity, geomagneticm, geomagnetic index, geomagnetic latitude, geomagnetic disturbance ABSTRACT: The diurnal rate of changes in geomagnetic activity on quiet days during the IGY is discussed. Data of the geomagnetic K-indices taken from 92 stations were used and were transformed into equivalent amplitudes R. Harmonic analysis of equivalent amplitudes showed that the first harmonic was predominant in the diurnal rate for the majority of stations in all seasons. The diurnal rate of magnetic activity was divided for local and universal time. In the vicinity of the outer zone of maximum of magnetic activity (* * 60°-70°), the

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latitude. The diurnal disturbance decreases in the transition from disturbed to quiet days. In the middle latitudes the local-time component of the wave of magnetic activity with a noon maximum increases on passing from disturbed days to quiet days. Sharp changes in the amplitude of the nocturnal maximum of activity are caused by corpuscular streams interacting with the earth. The universal-time component of diurnal disturbances on disturbed days has symmetric and asymmetric Parameters of the symmetric part depend upon the latitude on both quiet and disturbed days. In the middle latitudes the time of maximum changes by * in the transition from disturbed to quiet days. In polar regions phases of the symmetric part are equal on quiet and disturbed days. Fig. 2 shows the state of magnetic activity in universal time. In the polar region changes in ionospheric conductivity influence the geomagnetic field, and the total vector of the geomagnetic field will be maximum at 0200 universal time. Orig. art. has: 3 figures and 1 table.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 008

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ACC NR. AT6034614 SOURCE CODE: UR/3148/66/000/008/0094/0101

AUTHOR: Mishin, V. M.; Troshichev, O. A.; Urbanovich, V. D.

ORG: none

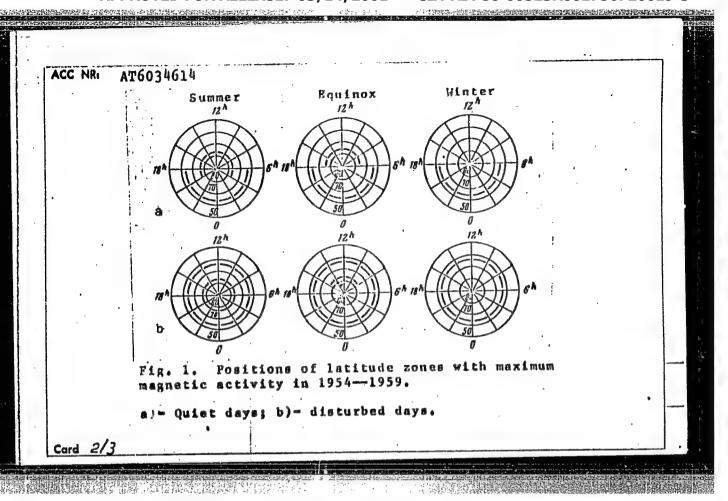
TITLE: Distribution of magnetic activity at high latitudes

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. III razdel programmy MGG (Geomagnetizm i zemnyye toki). Sbornik statey no. 8, 1966. Geomagnitnyye issledovaniya (Geomagnetic research), 94-101

TOPIC TAGS: geomagnetic disturbance, magnetic activity, equivalent amplitude, local time component, universal time component

ABSTRACT: Magnetic disturbances change sharply and reach maxima in high latitudes. Initial data concerned with the equivalent amplitude and parameters of the local time component of the diurnal rate of magnetic activity have been taken from tables of earlier publications of the same authors. These data are taken from 23 stations of the Northern Hemisphere and 14 stations of the Southern Hemisphere. Magnetic activity was recorded during the IGY on quiet and disturbed days. The mean diurnal disturbances for each station were computed for local summer, winter, and the equinoxes. When the latitudinal distribution of the universal-time component is known, the mean value of the

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equivalent amplitude can be computed using appropriate formulas. The maximum of the mean diurnal activity on disturbed days in summer occurs between the 63rd and 65th and near the 78th parallels. During winter and the equinoxes the maximum appears in the lower latitudes. No maximum appears at the 78th parallel. This distribution holds for the local-time component. The distribution of the maxima is shown in Fig. 1. On disturbed days the maximum activity in the first zone occurs at every hour of the day and night regardless of the season. In the second zone a sharp maximum appears in summer during daylight hours and a weak one in winter and the equinoxes. Both zones are divided by a wide zone of low activity. On quiet days in summer, the maximum activity is predominant in the second zone. Activity zones can be characterized in two ways: maxima distributed by latitude and by the diurnal rate of activity. The first results in annular zones and the second in spirals. Orig. art. has: 4 figures, 1 table, and

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 012/ OTH REF: 002

Card 3/3

LATYPOVA, R.Kh.; MISHIN, V.M.; TROSHICHEV, O.A.; FEDCHENKO, Z.A.

Apropos of M.S. Bobrov's article "Overall planetary picture of geomagnetic disturbances of corpuscular origin." Geomag. i aer. 2 no.3:553-560 My-Je '62. (MIRA 15:11)

l. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln Sibirskogo otdeleniya AN SSSR.

(Cosmic rays) (Magnetic storms)

L 42286-66

ACC NR: AP6022500

UR/0054/66/000/001/0069/0074 SOURCE CODE:

Trifonov, Ye. D.; Troshin, A. S.

ORG: none

TITLE: Phase operator for an oscillator

SOURCE: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no. 1, 1966, 69-74

TOPIC TAGS: quantum oscillator, electromagnetic field, photon

ABSTRACT: It has been proposed in the literature that the electromegnetic field may be described in terms of the photon annihilation operator \hat{a}_{\uparrow} . The operator for the positive-frequency portion of the electric voltage of the field can, with the aid of the operator $\hat{a}_{\frac{1}{2},\frac{1}{2}}$ B , be represented in the form

 $\overrightarrow{E}^{+}(\overrightarrow{r}, t) = i \sum_{k} \left(\frac{1}{2} L^{-3} h \omega_{\overrightarrow{k}}\right)^{\frac{1}{2}} \overrightarrow{e}_{\lambda}(\overrightarrow{k}) e^{i \overrightarrow{k} \overrightarrow{r}} e^{-i \omega_{\overrightarrow{k}} t} \widehat{a}_{\overrightarrow{k}, \lambda},$ (1)

where L is one edge of the cube in which, according to the assumption, the field is enclosed; R is the wave vector; A is the polarization

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ACC NR: AP60225 Index; $\vec{e}_{\lambda}(\vec{k})$: 1s operator $\vec{E}_{\uparrow}(\vec{r}, t)$	the unit pol	arization vecsorited, resp	ctor. The truectively, by	the formula	the
	$\vec{E}^{+}(\vec{r}, t) = l$	$\sum_{\mathbf{k}} \left(\frac{1}{2} L^{-3} h \omega_{\mathbf{k}} \right)^* e$	$\lambda(R)e^{i\pi \cdot R} = \lambda_{R,1}$	(2)	
where at 1 is	$\hat{a} \rightarrow \langle a_{\uparrow} \rangle = 0$	$ a_{\overline{\lambda},\lambda}\rangle$	(3)		. •
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ORG: none TITIE: The problem of the effect of oxygen on the acetylcholinesterase activity level in the brain of animals [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 165-166 COPIC TAGS: hyperoxia, central nervous system, drug effect, nervous activity, acetylcholinesterase ABSTRACT: A study was made of the effect of chronic exposure to hyperoxic media with various pO ₂ on cerebral acetylcholinesterase activity in CC 57 strain white mice (males) 3 mo old. Acetylcholinesterase activity was determined by continuous potentiometric titration at constant pH and temperature, and expressed in micromols (u mol) of acetylcholine hydrolyzed in 1 hr from a gram live weight of brain tissue.
TITIE: The problem of the effect of oxygen on the acetylcholinesterase activity level in the brain of animals [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materially konferentsii, Moscow, 1966, 165-166 COPIC TAGS: hyperoxia, central nervous system, drug effect, nervous activity, acetylcholinesterase ABSTRACT: A study was made of the effect of chronic exposure to hyperoxic media with various pO ₂ on cerebral acetylcholinesterase activity in CC 57 strain white mice (males) 3 mo old. Acetylcholinesterase activity was determined by continuous potentiometric titration at constant pH and temperature, and expressed in micromols (µ mol) of acetylcholine hydrolyzed in 1 hr from
SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1900. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 165-166 COPIC TAGS: hyperoxia, central nervous system, drug effect, nervous activity, acetylcholinesterase ABSTRACT: A study was made of the effect of chronic exposure to hyperoxic media with various pO ₂ on cerebral acetylcholinesterase activity in CC 57 strain white mice (males) 3 mo old. Acetylcholinesterase activity was determined by continuous potentiometric titration at constant pH and temperature, and expressed in micromols (µ mol) of acetylcholine hydrolyzed in 1 hr from
SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1900. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 165-166 COPIC TAGS: hyperoxia, central nervous system, drug effect, nervous activity, acetylcholinesterase ABSTRACT: A study was made of the effect of chronic exposure to hyperoxic media with various pO ₂ on cerebral acetylcholinesterase activity in CC 57 strain white mice (males) 3 mo old. Acetylcholinesterase activity was determined by continuous potentiometric titration at constant pH and temperature, and expressed in micromols (µ mol) of acetylcholine hydrolyzed in 1 hr from
TOPIC TAGS: hyperoxia, central nervous system, drug effect, nervous activity, acetylcholinesterase ABSTRACT: A study was made of the effect of chronic exposure to hyperoxic media with various pO ₂ on cerebral acetylcholinesterase activity in CC 57 strain white mice (males) 3 mo old. Acetylcholinesterase activity was determined by continuous potentiometric titration at constant pH and temperature, and expressed in micromols (µ mol) of acetylcholine hydrolyzed in 1 hr from
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with various pO ₂ on cerebral acetylcholinesterase activity was determined white mice (males) 3 mo old. Acetylcholinesterase activity was determined by continuous potentiometric titration at constant pH and temperature, and expressed in micromols (µ mol) of acetylcholine hydrolyzed in 1 hr from
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a gram live weight of brain tissue.
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ACC NR: AT6036559

The animals were exposed for 1 month to atmospheres having pO2 of 80%, 60%, and 40%, and for 5 days to an atmosphere with 60% oxygen. Controls were kept for similar periods in air.

The greatest brain acetylcholinesterase activity was found in the animals kept in the atmosphere with 80% oxygen (1085 \pm 16.80 μ mol acetylcholine g/hr). In the animals exposed to the 60% oxygen atmosphere, activity was $1014 + 31.07 \mu$ mol acetylcholine g/hr, which considerably exceeds that found in the controls (871 + 16.86 μ mol acetylcholine g/hr). In the 5-day exposure to the 60% oxygen atmosphere, brain acetylcholinesterase activity was still compartively high (979 + 52, 97 μ mol acetylcholine g/hr), but lower than in the 1-mo exposure. In the mice exposed to a 40% oxygen atmosphere, no statistically reliable difference, between the experimental and control groups were observed.

It is concluded that increasing pO2 in the respired air causes the level of brain acetylcholinesterase activity to increase, primarily owing to intensified sympathetic nervous system activity. [W.A. No. 22; ATD Report 66-116]

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CIA-RDP86-00513R001756720019-3

ACC NRI AP7001830

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UR/0219/66/062/012/0046/0049 SOURCE CODE:

AUTHOR: Troshikhin, G. V.;

ORG: Institute of Physiology im. I. P. Pavlov/Director-Academician V. N. Chernigovsky AN SSSR, Leningrad (Institut fiziologii AN SSSR)

TITLE: Effect of chronic exposure to a hyperoxic medium on the gas metabolism of white mice

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 62, no. 12, 1966, 46-49

TOPIC TAGS: hyperoxio, snimal experiment, respiration, biologic metabolism

ABSTRACT: The dynamics of gas metabolism during prolonged exposure of animals to a medium with an increased concentration of oxygen was studied. A total of 76 white mice of the CC 57W strain was placed in two hermetic chambers. One chamber contained a hyperoxic misture; the other contained air (control). The chambers were connected to a closed air system regeneration; oxygen was released automatically by a gas meter in proportion to the animals' oxygen consumption. The temperature was maintained at 20—23C. The gas metabolism of the animals was determined in media with the following oxygen contents: I. 40% 02 for 27 days; II. 60% 02 for 39 days; III. 80% 02 for 42 days; IV. 90% 02 for 10 days. In the first series of experiments, animals showed a short period of increased O2 consumption (three days), followed by a

UDC: 612.275.014.49:612.22

ACC NRI AP7001830

return to normal. In the second series, there was a longer period of increased 0_2 consumption (26 days) and then a gradual return to the normal level. The higher amount of 02 consumption in both series of experiments was accompanied by increased differences were observed in weight between the control and CO, release. No experimental mice as a result of the tests. The third series caused a decrease in gas metabolism during the entire experiment, with an expecially sharp decrease (27%) on the eighth to minth days. The weight of the animals dropped by 20% after the end of the experiments: 02 consumption did not return to normal for eight days after the experiments, even though weight had returned to normal. In the fourth series, there was a marked drop in gas metabolism from the first day, and by the fourth day it had decreased by 60% of original amount. On the seventh day mice began to die. Most deaths were accompanied by inflammation. In three survivors, oxygen consumption respiration of air and reached normal on the ninth day. increased with resumed Thus, in animals exposed to an 80% medium there was . no mortality. However, sluggishness, adynamia, and decreased appetite were observed. A 90% concentration of 02 was clearly toxic. Changes in gas metabolism in mice after a prolonged stay in hyperoxic conditions with various percentile contents of oxygen probably reflect, complex physiological changes in metabolic processes.

SUB CODE: 06/ SUBM DATE: 29Apr65/ ORIG REF: 008/ OTH REF: 005/

Card 2/2

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ACC NR. AT6036562 SOURCE CODE: UR/0000/66/000/000/0171/0171.

AUTHOR: Zhironkin, A. G.; Troshikin, G. V.

ORG: none

TITLE: Rate of formation of conditioned reflexes and oxygen absorption level in animals kept for long periods in an oxygen-enriched helium atmosphere [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow. 1966. 171

TOPIC TAGS: hyperoxia, helium oxygen atmosphere, conditioned reflex, biologic metabolism. central nervous system, mouse

ABSTRACT: Experiments are reported on the functional state of the CNS (Based on the rate of conditioned defense reflex formation and the level of gas metabolism) in 3 groups of mice exposed for 20 days to hyperoxic atmospheres of: a) 60% oxygen and 40% helium; b) 60% oxygen and 40% nitrogen; and c) 20% oxygen and 80% nitrogen (control). It was found that in hyperoxic atmospheres the rate of formation of conditioned reflexes was slower and motor reaction time longer than in air (control). Gas metabolism was more intense in both experimental groups.

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ACC NR. AT6036562

Conditioned reflex formation rate and motor reaction time was almost identical for the "helium" (a) and "nitrogen" (b) mice. However, the level of gas metabolism was noticeably greater in the "helium" group than in the "nitrogen" group.

It is suggested that slower formation of conditioned reflexes and retardation of motor reactions, as well as the higher level of gas metabolism in mice exposed for long periods to a hyperoxic helium atmosphere is related to the greater thermal conductivity of helium, which enhances cooling of the animals and displaces the thermal comfort zone. The specific effect of oxygen on CNS functions and metabolic processes is also a considerable factor contributing to these phenomena. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: COMay66

Card 2/2

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP

CIA-RDP86-00513R001756720019-3

DD/GD T, na862**-67** EMT(1)SOURCE CODE: UR/0000/66/000/000/0366/0367 ACC NR. ATOU36674 21 AUTHOR: Troshikin, G. V. ORG: none TITLE: Effect of helium on conditioned reflex activity and gas metabolism in animals Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966/ SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 366-367 TOPIC TAGS: helium oxygen etmosphere, conditioned reflex, biologic respiration, mouse ABSTRACT: A study was made of the rate of conditioned defense reflex formation and gas metabolism dynamics in 40 adult male white mice exposed for 1 month to an atmosphere of 21% oxygen and 79% helium at temperatures of 21° to 23°C and 24° to 26°C. Controls were kept the same length of time in an air atmosphere. It was found that conditioned reflex formation took longer in mice kept in a helium--oxygen mixture at 21° to 23°C. Conditioned reflexes Card 1/2

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ACC NR: A'16036674

became established on the 19th day of the experiment in the "helium" mice as against the 8th day in the control mice.

Gas metabolism increased during the first 3 days of exposure to the helium atmosphere; oxygen utilization subsequently decreased but remained higher than in the control group. After the helium--oxygen atmosphere was replaced with air, oxygen utilization remained at the same level for the first 2 days, then returned to normal.

In a second series of experiments with a similar helium--oxygen atmosphere but a higher (24° to 26°C) temperature, conditioned reflex formation occurred almost simultaneously in both groups of animals ("helium" and "air"). There was likewise no difference in the level of oxygen utilization, although rectal temperature in the "helium" mice was slightly lower than in the "air" mice.

It was concluded that the longer conditioned reflex formation time and higher oxygen utilization in a helium-oxygen atmosphere is due mainly to more efficient cooling of the animals by helium, which is a conmainly to more conductor than nitrogen. (W.A. No. 22; ATD Report 66-1167)

Card 2/2 egk

SUB CODE: 06 / SUBM DATE: 00May66

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720019-3"

ZHIRONKIN, A.G.; BRESLAV, I.S.; KONZA, E.A.; NOZDRACHEV, A.D.; SALATSINSKAYA, Ye.N.; TROSHIKHIN, G.V.; FEDOROVA, L.D.; SHMELEVA, A.M.

Effect of prolonged sojourn of animals in oxygen-enriched air on some physiological functions. Probl. kosm. biol. 4:518-530 165. (MIRA 18:9)

BRESLAV, I.S.; ZHIRONKIN, A.G.; KONZA, E.A.; SALATSINSKAYA, Ye.M.;
TROSHIKHIN, G.V.

Dynamics of gas evchange in white mice under increased partial oxygen pressure. Fiziol. zhur. 49 no.5:643-647 My '63.

(MIRA 17:11)

1. From the Pavlov Institute of Physiology, Leningrad.

CIA-RDP86-00513R001756720019-3

TROSHICHEV, V. M.

TROSHICHEV, V. M. - Khudozhnik i, GROMOV, V. L. - Kand. Tekh. Hauk, POKHELES, E. L. - Arkh., PSHENICHNIKOVA, O. S. - Arkh., BUYAMOV, Yu. P. - Inzh., BYKOVSKIY, O. L. - Arkh., BAYAR, O. G. (Rukovoditel'temy) - Kand. Arkhitektury, MAKOTINSKIY, M. P. - Arkh., ANDEREYEVSKIY, Kand. Arkhitektury, RABINOVICH, I. L. - Arkh., CHERIKOVER, L. Z. - Arkh., ANDEREYEVSKIY, V. G. - Kand Tekhn. Nauk

Nauchnoissledovatel'skiy institut stroitel'noy tekhniki Akademii arkhitektury SSSR

Predlozheniya po oborudovaniyu i otdelke kvartir mnogoetazhnykh zhilykh domov v moskve (Al'bom)

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

TROSHIHINA, P.

"Charging Rhythm of Respiration on the Ontogenesis of Animals." Tr. from the Russian, p. 84. (ANALELE ROMANO-SOVIETICE. SERIA PEDIATRIE. Series a III-a v, 6, no. 5; Sept./Oct. 1953, Bucuresti, Rumania.)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 4, April 1954

CIA-RDP86-00513R001756720019-3

L 30083-66 EWT(1) SCTB DD

ACC NR: AP6019196

SOURCE CODE: UR/0238/66/012/003/0313/0320

ञ्चे B

AUTHOR: Troshykhin, H. B .- Troshikhin, G. V.

ORG: Laboratory of Respiratory Physiology, Institute of Physiology im. I. P. Pavlov. AN SSSR, Leningrad (Laboratoriya fiziologii dykhaniya Instituta fiziologii AN SSSR)

TITLE: The effect of a hyperoxic medium on some physiological functions of the organism

SOURCE: Fiziolohichnyy zhurnal, v. 12, no. 3, 1966, 313-320

TOPIC TAGS: hyperoxia, respiration, conditioned reflex, animal physiology, biologic metabolism

ABSTRACT: To determine the effect of a hyperoxic medium made up of various percentages of oxygen on animals, oxygen consumption and the process of positive, defensive reflex development in response to light were studied using white mice. Four series of experiments were conducted: the first involved exposure to 40% oxygen for 27 days, the second, to 60% oxygen for 39 days, the third, to 80% oxygen for 42 days, and the fourth, to 90% oxygen for 10 days. Animals in the first series showed a temporary increase in oxygen consumption followed by normalization and no shifts in conditioned reflex activity. Animals of the second series showed increased oxygen consumption while reflex development was slower. In the third series, oxygen metabolism and the development of conditioned reflexes were noticeably depressed.

Card 1/2

elimination metabolism a	pparently refle	ect altered ti	ssue meta rt. has:	creased oxygen cons. These shifts obstablism which affect 1 table and 3 fig.	ures. [CD]	
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L 32924-66 EWT(1) SCTB DD SOURCE CODE: UR/0247/66/016/003/0538/0540
AUTHOR: Troshikhin, G. V.
ORG: Physiology Institute im. 11 The SSSR) SSSR (Institut fiziologii Adakemii nauk SSSR) Tith normal atmospheric pressure on
TITLE: Effect of a hyperoxic medium with the development of conditioned reflexes in rats the development of conditioned reflexes in rats source: Zhurnel vysshey nervnoy devatel nosti, v. 16, no. 3, 1966,
530-540 byparoxia, conditioned reflex, brain
ABSTRACT: Four series of experiments were state of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to determine the effects of different gaseous mice of the CC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the first mice of the cC57W line to develop a conditioned reflex. In the cC57W line to develop a conditioned reflex mice of the cC57W line to develop a conditioned reflex mice of the cC57W line
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ACC NR: AP6019494

medium and control experiments were conducted simultaneously in chambers filled with air. The number of days required to develop a defensive conditioned reflex and motor-activity rate served as indexes. Findings for the first series (40% oxygen) show that the conditioned reflex was developed in the control group by the 8th day and in the experimental group by the 9th day. In the second series (60% oxygen) the conditioned reflex was developed in the control group by the 13th day and in the experimental group by the 22nd day. In the third series (80% oxygen) the conditioned reflex was developed in the control group by the 19th day and in the experimental group by the 31st day. In the fourth series (90% oxygen) the orientation reflex of animals was totally absent. The animals were unable to develop conditioned reflexes and began to die on the 7th day. On the basis of these data, it appears that increase of oxygen in air used for breathing exerts a toxic effect on the brain cells and inhibits the function of the central nervous system. Orig. art. has: 2 figures.

SUB CODE: 06/ SUBM DATE: 20May65/ ORIG REF: 007/ ATD PRESS: 5027

Card 2/2 88 B

BRESLAV, I.S.; ZHIRONKIN, A.G.; IL'NITSKIY, A.M.; KONZA, E.A.; MITYUSHOV, M.I.; NOZDRACHEV, A.D.; SALATSINSKAYA, Ye.N.; TROSHIKHIN, G.V.; SHMELEVA, A.M.

Some data on the effect of a closed space on the physiological functions in animals. Probl.kosm.biol. 2:291-302 '62. (MIRA 16:4) (SPACE MEDICINE)

CIA-RDP86-00513R001756720019-3

L 4477)-06 1/15 ACC NR: AP6030662

SOURCE CODE: UR/0020/66/169/006/1480/1482

AUTHOR: Troshikhin, G. V.

fiziologii Akademii nauk SSSR)

ORG: Institute of Physiology im. I. P. Pavlov, Academy of Sciences SSSR (Institut

TITLE: Some features of the gas exchange and conditioned-reflex activity of animals during prolonged exposure to a helium-oxygen medium

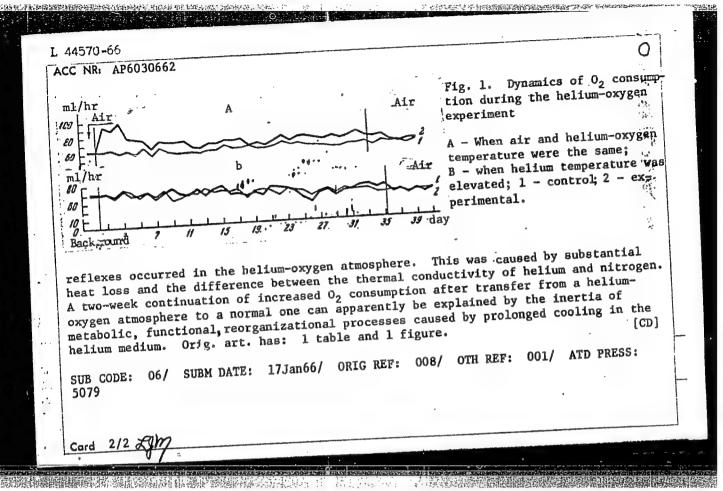
SOURCE: AN SSSR. Doklady, v. 169, no. 6, 1966, 1480-1482

TOPIC TAGS: animal physiology, animal experiment, respiratory system, life support system, helium oxygen atmosphere, biologic metabolism, conditioned reflex

ABSTRACT: Experiments were conducted on 80 CC57-strain mice in two hermetic chambers equipped with closed air-regeneration systems. Oxygen consumption was monitored by an automatic gas counter. One chamber was supplied with a 21%-02, 79%-He mixture while the other served as a control (normal air). It was possible to increase the temperature in the helium-oxygen system. Each chamber contained 40 mice. The makeup of the gaseous medium was monitored twice a day and 02 content was found to be 18—22%, CO2 -- 0.1—0.7%, and the nitrogen component of the helium-oxygen mixture -- 2.5—5.0%. Some result of data on the oxygen consumption of experimental and control animals is given in Figure 1. The data indicated that increased O2 consumption, decreased body temperature, and increased time necessary for the formation of conditioned

Card 1/2

IDC+ 591.121+591.513+591.128



. 16812-66 EWT	L) SCTB DD SOURCE CODE:	UR/2865/65/004/000/0518/0530			
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UTHOR: Zhironkin	A. G.; Breslav, I. S.; Konza, E. N.; Troshikhin, G. V.; Fedorova.	h. D.; Shmeleva, A. M.	(
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TROSHIKHIN, V. A.

Troshikhin, V. A. "On the problem of the balance of stimulation and inhibition processes in dogs of an excitable type," Trudy fiziol. laboratoriy im. Pavlova, Vol. XIII, 1948, p. 150-53

30: U-2888, Letopis Zhurnal'nykh Statey, No.1 , 1949

KOLESNIKOV, M.S.; TROSHIKHIN, V.A.

Lower standard of tests for the determination of the higher nervous function in dog. Zh. vysshei nerv. deiat. 1 no. 5:739-743 Sept-Oct 1951.

1. Institute of Physiology imeni I. P. Pavlov of the Academy of Sciences USSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720019-3"

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ALEKSANYAN, A.M.; TROSHIKHIN, V.A.; FEDOROV, V.K.

Against IU. Konorskii's reactionary criticism of I.P. Pavlov's theories. Izv.AN Arm. SSR. Biol. i sel'khoz. nauki. 4 no.2:107-118 '51. (MLRA 9:8)

1. Institut fiziologii Akademii nauk Armyanskoy SSR. (Conditioned response)

KOLESNIKOV, M. S.; TROSHIKHIN, V. A.

Hervous System

Limited standard of tests for the determination of the type of higher nervous activity of a dog. Zhru.vys.nerv.deiat. 1 no. 5, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

CIA-RDP86-00513R001756720019-3

TROSHIKIN, V.A.

Nervous System

Some results of a study of the higher nervous activity in ontogenesis. Zhur. vys. nerv. deiat. 2, no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress,

HOVELISER 1957050 Unclassified.

CIA-RDP86-00513R001756720019-3" APPROVED FOR RELEASE: 03/14/2001

Certain aspects in the study of the higher nervous function in otogenesis. Zh. vysshei nerv. deiat. 2 no. 4:561-571 Jul-Aug 1952. (CIML 23:3)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720019-3"

THOSHIKHIN, V.A., zavednyushchiy.

Group study of typological properties of the nervous system in puppies.

(MERA 6:8)

Trudy Inst.fiziol. 1:21-28 '52.

1. Laboratoriya ontogeneza vysshey nervnoy deyatel'nosti.

(Nervous system)

KOBAKOVA, Ye.M.; TROSHIKHIN, V.A., saveduyushchiy.

Effect of the cerebral cortex upon the motor activity of the small intestine during ontogenesis. Trudy Inst.fiziol. 1:15?-155 '52. (Maa 6:3)

1. Laboratoriya ontogeneza vysshey nervnoy deyatel nosti.
(Brain) (Intestines)

OBRAZTSOVA, G.A.; TROSHIKHIN, V.A., zaveduvushchiy.
Origin and development of activity

Origin and development of conditioned reflex activity in a rabbit during ontogenesis. Trudy Inst.fiziol. 1:166-177 '52. (KLRA 6:8)

1. Laboratoriya ontogeneza vysshey nervnoy deyatel nosti.
(Conditioned response)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720019-3"